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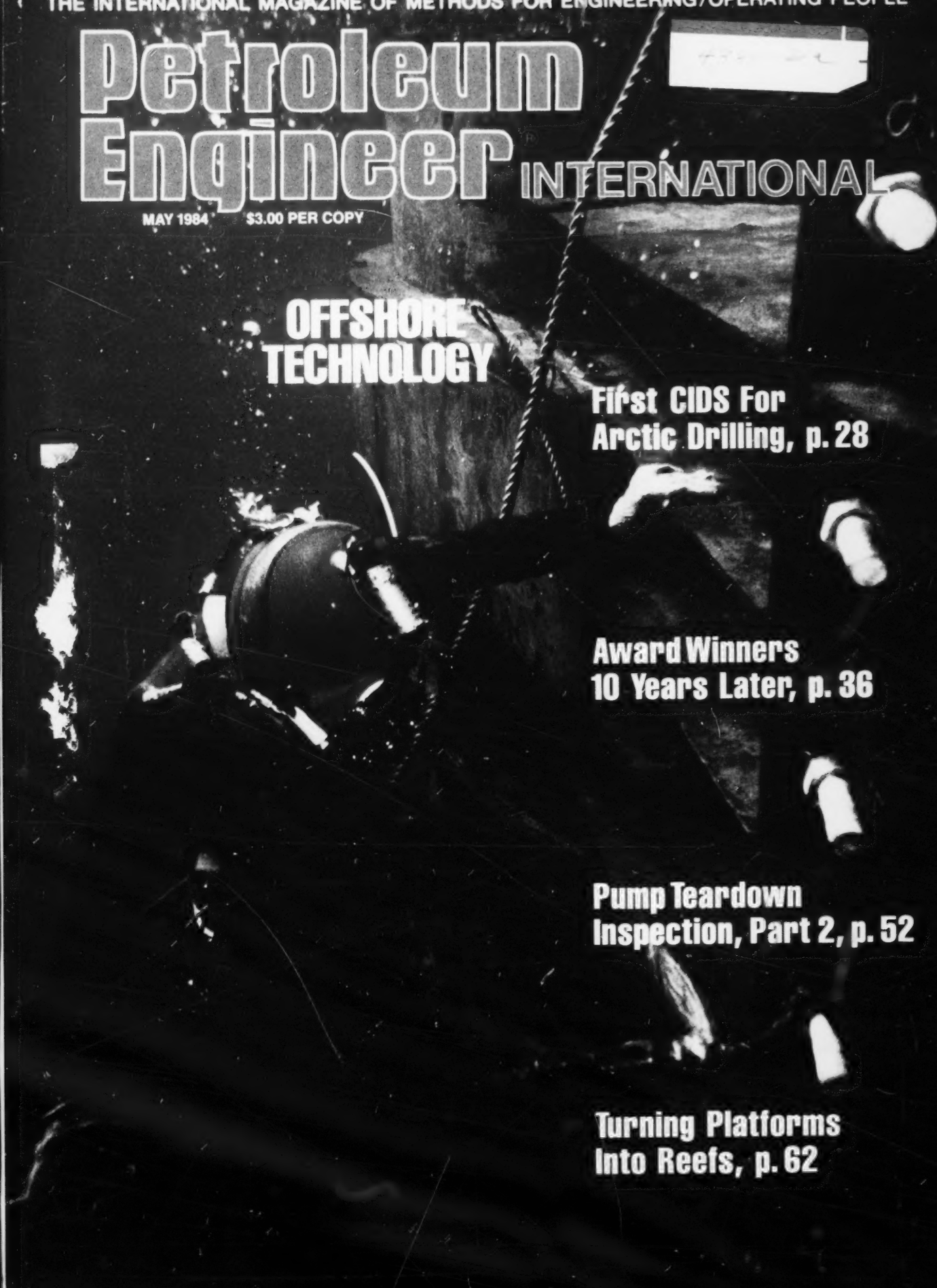

OFFSHORE TECHNOLOGY

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Pump Teardown Inspection, Part 2, p. 52

Turning Platforms Into Reefs, p. 62

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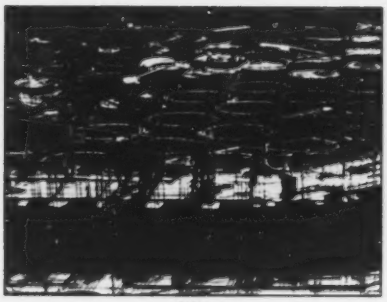

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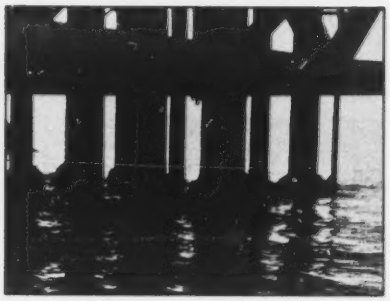

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OFFSHORE TECHNOLOGY

Offshore Technology Has A Tremendous Future 21

by Harrison T. Brundage, Gulf Coast Editor. At least 240 billion barrels of recoverable oil exist in the world's continental shelves. Drilling, engineering, and oceanographic research broaden this potential.

First CIDS Being Built For Arctic Offshore Drilling 28

by Max Halebsky and Sherman Wetmore, Global Marine Development Inc. Concrete Island Drilling Systems can be rapidly deballasted and moved to new locations within 2 days. And they don't require any active ice defense measures.

Original Award Winners Fulfilling Early Promise 36

by Rich McNally, Associate Editor. With the tenth annual Special Meritorious Awards for Engineering Innovation scheduled to be announced shortly, a look backward at some of the original award winners shows some impressive successes.

What's New... In Offshore Technology 48

Briefly described innovative products and techniques applicable to offshore applications include a flexjoint that incorporates the latest in elastomeric technology and filters with a high throughput-to-weight ratio.

Electrical Submersible Pump Teardown Inspection, Part 2 52

by James F. Lea, Amoco Production Co., and William J. Powers, TRW Reda. Serious scale buildup samples should be saved in plastic bags so that they can be analyzed for chemical treatment at a later date.

Rigs-To-Reefs Promotes Good Engineering And Ecology 62

by Harrison T. Brundage, Gulf Coast Editor. A cooperative effort to turn unneeded offshore platforms into artificial reefs has widespread support, from private companies, fishing groups, and state and federal governments.

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ABOUT THE COVER. Diver checks flotation tank being installed on a platform jacket that is destined to become an artificial reef offshore Alabama. (Related story, page 62. Photo by Joe Tillmans, Oceaneering International Inc.)

NEXT MONTH. The June International Report will discuss technological innovations taking place around the globe.

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P.O. Box 1589 • Dallas, Texas 75221-1589
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First Quarter Rig Count Tops 1983, But Completions Fall

Average U.S. rotary rig activity during the first quarter of 1984 – a quarter in which Hughes Tool Co.'s count of active rigs declined in all but one of 13 weeks – came to 2,461. That represents an increase of 162 rigs at work each week over the same period in 1983.

Nevertheless, the latest figures from Petroleum Information Corp. indicate that completions during this year's first quarter were down by 5.6%. PI says that total completions for 1984's first quarter were 20,380, a decline of 1,211 completions from last year's first 3 months.

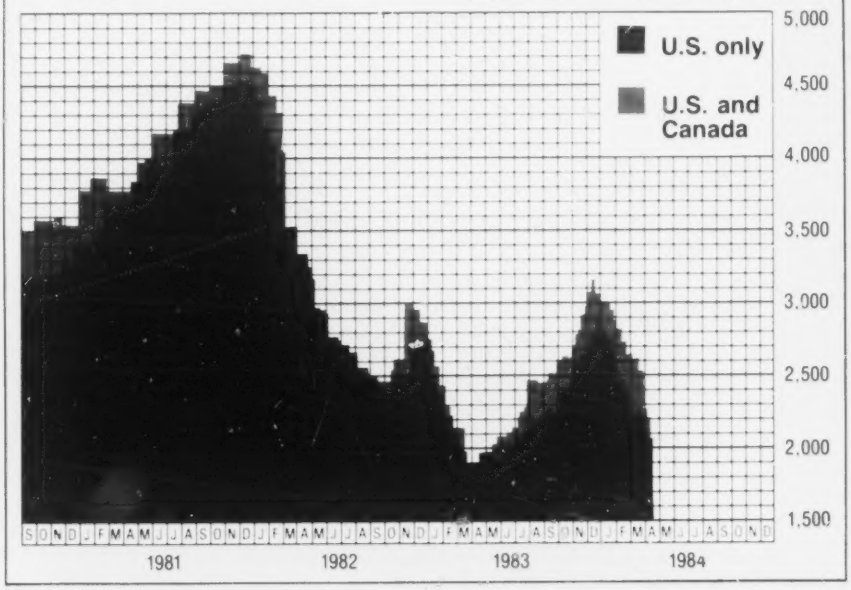
New field wildcat completions were down 10.4% during the first quarter of 1984, compared with the same period in 1983. And their success rate was only 14.2%. In 1983's first quarter, the rate of success for new field wildcats had been 16.2%.

Gas well completions were off 20.5% during the first quarter of this year.

Rotary rigs actually making hole in United States & Canada

As Reported To International Association Of Drilling Contractors By Hughes Tool Co.

	Mar. 19, 1984	Mar. 26, 1984	Apr. 2, 1984	Apr. 9, 1984
Alabama				
Land	13	13	16	8
Inland Waters	0	0	0	1
Offshore	1	1	2	2
Alaska				
Land	10	11	11	13
Offshore	3	3	2	3
Total	13	14	13	16
Arkansas	22	23	21	24
Arizona	0	0	0	1
California				
Land	80	76	73	78
Offshore	22	22	18	17
Total	102	98	91	95
Colorado	52	53	46	46
Florida	2	2	2	2
Hawaii	1	1	1	1
Illinois	11	9	2	7
Indiana	4	5	0	4
Kansas	125	120	85	79
Kentucky	7	5	3	3
North Louisiana	31	29	29	29
South Louisiana				
Inland Waters	49	50	46	45
Land	108	102	103	95
Offshore	121	121	117	123
Total	309	302	295	292
Michigan	26	24	21	21
Mississippi	31	32	34	27
Montana	26	30	29	33
Nebraska	11	10	9	9
Nevada	2	3	3	5
New Jersey	1	1	1	1
New Mexico	62	73	69	70
New York	6	5	2	5
North Dakota	42	47	45	47
Ohio	16	18	18	14
Oklahoma	324	301	287	254
Pennsylvania	29	29	25	20
South Carolina	1	1	1	1
South Dakota	1	1	1	1
Texas				
Offshore	51	56	56	56
Inland Waters	5	8	7	7
Dist. 1-S. Central Tex.	18	20	19	21
Dist. 2-Middle Tex. Coast	34	34	34	32
Dist. 3-Upper Tex. Coast	108	105	97	93
Dist. 4-Lower Tex. Coast	81	78	74	79
Dist. 5-Northeast Tex.	34	34	33	38
Dist. 6-Far Northeast Tex.	67	70	71	65
Dist. 7B-N. Central Tex.	40	42	35	47
Dist. 7C-W. Central Tex.	64	62	54	59
Dist. 8-Far West Tex.	139	134	137	142
Dist. 8A-West Tex.	54	54	60	54
Dist. 9-North Tex.	71	61	74	74
Dist. 10-Tex. Panhandle	54	44	40	30
Total	820	802	791	806
Utah	39	42	44	43
Virginia	3	4	3	3
Washington	1	1	1	0
West Virginia	26	28	25	31
Wyoming	108	108	94	90
Total U.S.	2,237	2,206	2,074	2,062
Canada	323	283	190	133
Canada-Offshore	15	14	15	14
U.S. and Canada	2,575	2,503	2,279	2,209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